In the Claims:

1-9. Cancelled.

10. (Currently Amended) A vision system for a vehicle comprising:

a light source generating an illumination beam;

a receiver generating a first image signal and a second image signal, at least one of said first image signal and said second image signal being generated in response to at least a reflected portion of said illumination beam; and

a controller coupled to said light source and said receiver, said controller generating an image in response to said first image signal and said second image signal;

wherein said controller generates said image in response to a maximum image intensity threshold $I_{b,max}$ and a minimum image intensity threshold $I_{b.min}$; and

~~A system as in claim 9~~ wherein said controller determines pixel intensity values of at least a portion of said image to be approximately equal to $I_{avg} - \frac{(I_{b,max} - I_b)(I_{avg} - I_{b.min})}{\Delta}$, where average intensity values I_{avg} are approximately equal to $\frac{I_b + I_d}{2}$ and threshold difference Δ is approximately equal to $I_{b,max} - I_{b,min}$.

11-12. Cancelled.

13. (Currently Amended) A vision system for a vehicle comprising:

a light source generating an illumination beam;

a receiver generating a first image signal and a second image signal, at least one of said first image signal and said second image signal being generated in response to at least a reflected portion of said illumination beam; and

a controller coupled to said light source and said receiver, said controller generating an image in response to said first image signal and said second image signal;

wherein said receiver in generating a first image signal and a second image signal generates an illuminated image signal having pixel intensity values I_b and a non-illuminated image signal having pixel intensity values I_d; and

PAGE 3/8 * RCVD AT 4/30/2007 1:50:40 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/2 * DNIS:2738300 * CSID:248 2239522 * DURATION (mm-ss):02-00

~~A system as in claim 7~~ wherein said controller determines pixel intensity values of at least a portion of said image to be approximately equal to $\frac{I_b}{1+\frac{(I_b-I_d)}{\beta}}$, where β is a predetermined value.

14. Cancelled.

15. (Currently Amended) A vision system for a vehicle comprising:

a light source generating an illumination beam;

a receiver generating a first image signal and a second image signal, at least one of said first image signal and said second image signal being generated in response to at least a reflected portion of said illumination beam; and

a controller coupled to said light source and said receiver, said controller generating an image in response to said first image signal and said second image signal; and

~~A system as in claim 1 comprising~~ an oncoming vehicle ~~object~~ detection sensor generating an object detection signal, said controller adjusting the phase of said first image signal to be out of phase with said second image signal ~~operating said light source and said receiver~~ in response to said object detection signal.

16. (Currently Amended) A vision system for a vehicle comprising:

a light source generating an illumination beam;

a receiver generating a first image signal and a second image signal, at least one of said first image signal and said second image signal being generated in response to at least a reflected portion of said illumination beam; and

a controller coupled to said light source and said receiver, said controller generating an image in response to said first image signal and said second image signal; and

~~A system as in claim 1 further comprising a~~ an oncoming vehicle heading device generating a heading signal, said controller adjusting the phase of said first image signal

PAGE 4/8 * RCVD AT 4/30/2007 1:50:40 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/2 * DNIS:2738300 * CSID:248 2239522 * DURATION (mm-ss):02-00

to be out of phase with said second image signal ~~operating said light source and said receiver~~ in response to said heading signal.

17-20. Cancelled.

PAGE 5/8 * RCVD AT 4/30/2007 1:50:40 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/2 * DNIS:2738300 * CSID:248 2239522 * DURATION (mm-ss):02-00